

CLAIMS

1. Panic bolt including a fixed part (3; 103) having a bolt operating member (5; 105) and a crash bar (4; 104) that is mounted on said fixed part (3; 103) to pivot about a longitudinal axis between an idle position in which said crash bar (4; 104) occupies a position remote from said fixed part (3; 103) and a working position in which said crash bar (4; 104) occupies a position close to said fixed part (3; 103) and in which said crash bar (4; 104) activates said bolt operating member (5; 105), characterized in that said crash bar (4; 104) is a section articulated about said longitudinal axis by means of an articulation portion (40; 140).

2. Panic bolt according to claim 1, characterized in that it includes at least one abutment (37, 38; 137, 138) carried by said fixed part (3; 103) cooperating with at least one stop portion (43; 143) carried by said crash bar (4; 104), their cooperation delimiting the range of movement in articulation of said crash bar (4; 104).

3. Panic bolt according to either claim 1 or claim 2, characterized in that said articulation portion (40; 140) is situated in a lower portion of said crash bar (4; 104) and cooperates with an articulation portion (30; 130) of said fixed part to articulate the section constituting said crash bar (4; 104) about said longitudinal axis and said crash bar (4; 104) includes a stop portion (43; 143) situated in an upper portion of said crash bar (4; 104).

4. Panic bolt according to any one of claims 1 to 3, characterized in that the fixed part (3) is a section extending in the same direction as said crash bar (4).

5. Panic bolt according to claim 4,

characterized in that said fixed part (3) includes a longitudinal housing (34) which is entered with with clearance by a longitudinal edge of the section of said crash bar (4).

5 6. Panic bolt according to claim 5, characterized in that said longitudinal housing (34) includes at least one abutment (37) carried by said fixed part (3) cooperating with at least one stop portion (43) carried by said crash bar (4), their cooperation
10 delimiting the range of movement in articulation of said crash bar (4).

 7. Panic bolt according to claim 6, characterized in that a plurality of abutments (37, 38) cooperate with one stop portion (43).

15 8. Panic bolt according to claim 6, characterized in that one abutment cooperates with a plurality of stop portions.

 9. Panic bolt according to any one of claims 6 to 8, characterized in that said crash bar (4) has a
20 curved portion (42) that enters said longitudinal housing (34) via an opening at which is situated an abutment (37) formed by a free end of said housing (34), and said stop portion (43) is a rim at the end of said curved portion (42).

25 10. Panic bolt according to any one of claims 4 to 9, characterized in that said fixed part (3) includes longitudinal ribs (39a, 39b, 39c, 39d) adapted to receive said bolt operating member (5).

 11. Panic bolt according to any one of claims 4
30 to 10, characterized in that said crash bar (4) has a longitudinal articulation bead (40) in the vicinity of a longitudinal edge of the section that cooperates with a slotted tube of the section (30) constituting said fixed part (3) to articulate said crash bar (4) about said
35 longitudinal axis.

12. Panic bolt according to any one of claims 1 to 3, characterized in that said fixed part (103) includes two lateral plates (103a, 103b) between which said crash bar (104) is situated.

5 13. Panic bolt according to claim 12, characterized in that each of said plates (103a, 103b) includes at least one abutment (137, 138) cooperating with at least one stop portion (143) of said crash bar (104), their cooperation delimiting the range of movement
10 in articulation of said crash bar (104).

14. Panic bolt according to claim 13, characterized in that one abutment cooperates with a plurality of stop portions.

15 15. Panic bolt according to claim 13, characterized in that a plurality of abutments (137, 138) cooperate with one stop portion (143).

16. Panic bolt according to claim 15, characterized in that said crash bar (104) has on the section a lateral projection (143c) that forms said stop
20 portion (143), said abutments (137, 138) being formed by edges of a window (134) that is formed in one of said plates (103a, 103b) and which said lateral projection (143c) enters.

25 17. Panic bolt according to claim 16, characterized in that the section constituting said crash bar has two longitudinal ends each of which includes a lateral projection forming a stop portion and said abutments are formed by edges of a window that is formed in each of said plates and which one of said two lateral
30 projections enters.

35 18. Panic bolt according to any one of claims 12 to 17, characterized in that, at the end of one longitudinal edge of the section constituting said crash bar (104), said crash bar has a curvature in the shape of a longitudinal hollow cylinder (140) and said crash bar

(104) is placed between said plates (103a, 103b) so that, at each end of said crash bar (104), said cylinder (140) faces an opening (130) formed in the respective plate (103a, 103b), a pin (140a) entering said cylinder (140) and said opening (130) at each of said plates (103a, 103b) to articulate said crash bar (104) about said longitudinal axis.

19. Panic bolt according to any one of claims 12 to 18, characterized in that each of said plates (103a, 103b) is substantially symmetrical with respect to a median longitudinal plane (AA) of the panic bolt.

20. Panic bolt according to any one of claims 12 to 19, characterized in that said plates (103a, 103b) are substantially symmetrical to each other with respect to a median transverse plane of the panic bolt.

21. Panic bolt according to any one of claims 12 to 20, characterized in that said plates (103a, 103b) include fixing means (171, 172) for fixing them to a support.

22. Panic bolt according to any one of claims 1 to 21, characterized in that it includes lateral shells (106) adapted to be fixed to said fixed part (3; 103).

23. Panic bolt according to claim 22, characterized in that each of said lateral shells (106) is substantially symmetrical with respect to a median longitudinal plane (AA) of the panic bolt.

24. Panic bolt according to either claim 22 or claim 23, characterized in that said lateral shells (106) are substantially symmetrical to each other with respect to a median transverse plane of the panic bolt.

25. Panic bolt according to any one of claims 1 to 24, characterized in that it includes a bolt (151) on which said bolt operating member (5; 105) acts.

26. Panic bolt according to claim 25, characterized in that it includes lateral shells (106)

and said bolt (151) passes through one of said lateral shells (106).